

Online Receipt Plugin for SAP Customer Checkout

Bridging e-commerce sales into the SAP Customer Checkout point of sale

Version 1.0.0

Compatible with SAP Customer Checkout 2.0 FP15+

Document prepared for CloudAix evaluation

About This Document

This product document describes the Online Receipt Plugin, a Java add-on for SAP Customer Checkout (CCO) that imports receipts generated by external e-commerce / online sales systems directly into the CCO point-of-sale environment. The document is intended for the CloudAix hosting team to support technical evaluation and cloud deployment of the add-on.

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Executive Summary 1

The Online Receipt Plugin is a lightweight Java-based add-on for SAP Customer Checkout (CCO) that automatically imports receipts created by external online sales systems into the local CCO installation. It integrates with the standard CCO plugin architecture, so no native modification of the SAP standard products is required.

Sales receipts produced by an online store, marketplace, or external POS application are made available to the plugin in a simple folder or API endpoint. The plugin continuously monitors for new receipts, validates them, and posts them into CCO through the standard CCO backend API. Once imported, the receipt becomes a regular CCO receipt, fully visible in the CCO backend and usable with the standard receipt and reporting functions.

Built-in safeguards include automatic deduplication so a receipt is never posted twice, configurable polling intervals, and optional automatic login to keep the integration session active. The plugin is delivered as a single JAR file, deployed simply into the CCO Plug-ins folder.

Problem Statement 2

Retailers who sell on multiple channels (web shop, marketplace, social commerce) face a common problem: transactions created outside the physical store never appear in the SAP Customer Checkout system used at the checkout counter. As a result:

- Online orders are not part of the CCO receipt stream or daily reports.
- Cashiers and administrators cannot handle returns, inquiries, or reprints for online sales from the CCO POS.
- There is a reconciliation gap between e-commerce figures and CCO fiscal/reporting data.
- Manual re-entry of online receipts into CCO is time-consuming and error-prone.
- Needed separate integration with Backend (S4H/ByD/B1)

The Online Receipt Plugin closes this gap automatically, with zero manual data entry, no separate integration, using a simple, configurable integration point.

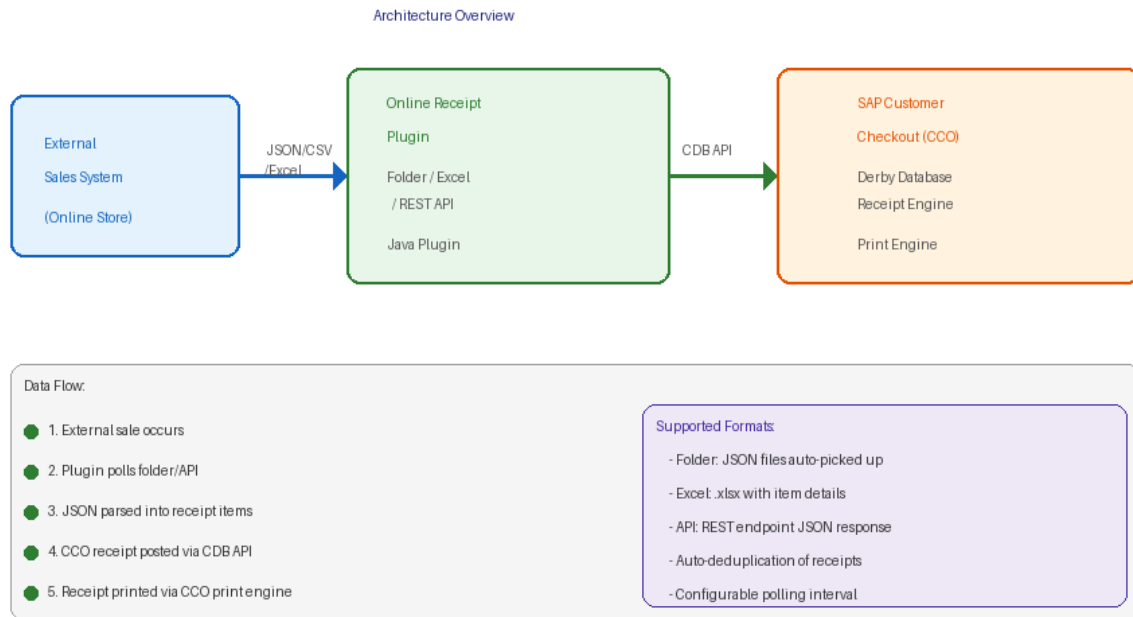
Solution Overview 3

The plugin acts as a bridge between the external sales channel and SAP Customer Checkout. External receipts are made available to the plugin through one of three supported source types:

- Folder source - JSON files dropped into a monitoring directory are picked up automatically.
- Excel source - a spreadsheet of receipts is read from a configured file path.
- API source - the plugin calls a customer REST endpoint and imports the JSON response.

Each imported receipt is validated, deduplicated against existing CCO receipts, and posted via the CCO backend API (CDB). The resulting receipts are standard CCO receipts and participate in the normal receipt engine - including regular printing through the CCO print engine.

Architecture 4



External online sales systems hand over receipts, the Online Receipt Plugin polls and imports them into CCO, and the standard SAP Customer Checkout components (Derby database, receipt engine, print engine) take over. The plugin is a passive client of the CCO environment and adds no extra moving parts beyond its own JAR file.

Key Features 5

Source flexibility

- Monitor a folder for JSON receipt files - ideal for any e-commerce platform that can export files.
- Read receipts from an Excel workbook for simple, human-maintained imports.
- Query a REST API endpoint for automated, real-time integration.

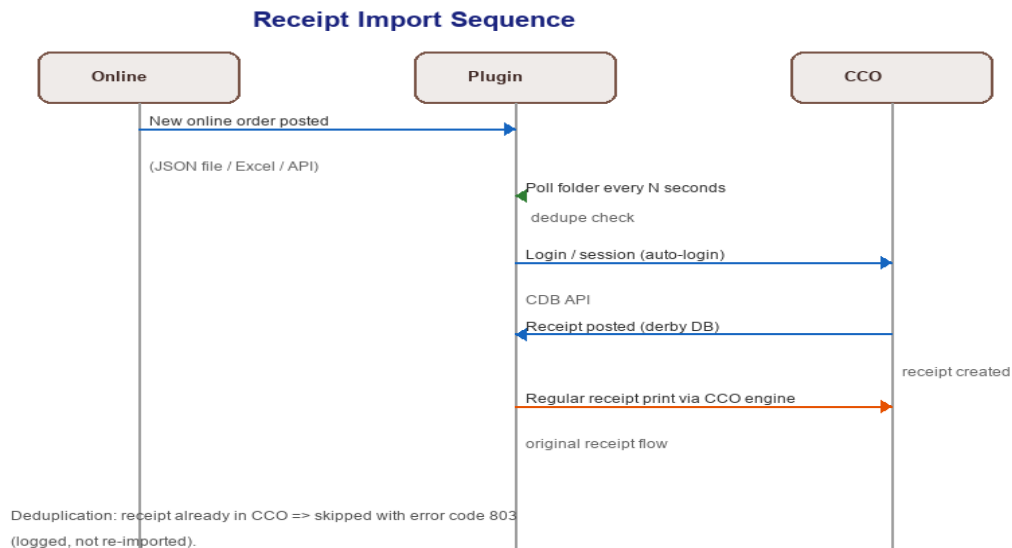
Data reliability

- Automatic deduplication: receipts already present in CCO are detected and skipped (error code 803), preventing double posting.
- Configurable polling interval (default 5 seconds) balances freshness against load.
- Clear logging to an isolated plugin log file for straightforward troubleshooting.

Operational ease

- Single JAR deployment - no installer, no database changes.
- Optional automatic login keeps the integration session active without manual intervention.
- All behaviour controlled from one simple configuration file.
- No modification of SAP standard products; uses the documented CCO backend API.

How It Works 6



Step 1: An online order is completed in the external system and exported as a JSON file, an Excel row, or an API record. Step 2: The plugin polls the configured source at the configured interval. Step 3: The receipt is parsed into CCO-format receipt items. Step 4: The plugin posts the receipt into CCO through the backend API; the receipt is written to the CCO Derby database. Step 5: The receipt is available as a standard CCO receipt and can be printed via the regular CCO print engine. Errors such as duplicates are logged and do not break the polling cycle.

Technical Requirements 7

Component	Requirement
SAP Customer Checkout	2.0 FP15 or higher (front-end and backend)
Operating system	Windows (CCO POS standard), any host supported by the CCO versions above
Java Runtime	Java 11 (JDK 11 validated)
Hardware	Standard CCO POS hardware profile
Integration API	CCO backend API (CDB) - part of the standard CCO installation

No additional licensed products, databases, or middleware are required. The plugin runs entirely inside the CCO process and uses only the components delivered with a standard SAP Customer Checkout installation.

Configuration 8

The plugin is configured through a single INI-style configuration file loaded at startup. The following settings are supported:

Property	Purpose	Example
source	Data source type: folder / excel / api	folder
posId	POS ID used for the session	XXXX
pollIntervalSec	Polling interval in seconds	5
dedupeEnabled	Skip receipts already in CCO	True
autoLogin	Keep integration session active	True
folderPath	Directory to monitor (folder source)	C:/SAPCustomerCheckout/cco/run/in
excelPath	Workbook path (excel source)	C:/Receipts/receipts.xlsx
apiEndpoint	REST endpoint (api source)	https://store.local/receipts

```
# OnlineReceiptPlugin Config
```

```
[general]
```

```
source=folder
```

```
posId=1100
```

```
pollIntervalSec=5
```

```
dedupeEnabled=true
```

```
autoLogin=true
```

```
folderPath=C:/SAPCustomerCheckout/cco/run/in
```

```
# Excel / API source example
```

```
#source=excel
```

```
#excelPath=C:/Receipts/receipts.xlsx
```

```
#source=api
```

```
#apiEndpoint=https://store.local/receipts
```

Startup log (cco_standard.log)

```
source=folder, posId=1100
```

```
dedupe=true, autoLogin=true
```

```
polling every 5s
```

```
plugin loaded OK
```

Installation 9

Step 1. Locate the CCO execution environment on the POS host (e.g. C:\SAPCustomerCheckout\cco).

Step 2. Copy the plugin JAR (online-receipt-plugin.jar) into the Plug-ins folder: CCO\POSPlugins\AP\

Step 3. Place the configuration file in the expected configuration location and set source, posId, polling and dedupe settings as required.

Step 4. Restart SAP Customer Checkout using the standard run.bat start procedure on the POS host.

Step 5. On startup the plugin loads automatically. Verify the startup entry in cco_standard.log.

No change to the SAP standard installation, no database migration and no additional services are required.

Security 10

- The plugin runs inside the CCO Java process with the same privileges as the CCO application itself.
- Automatic login uses the configured POS credentials and keeps a single session active; it is optional and can be disabled.
- No credentials are logged; logs capture operational state only.
- Receipt data remains inside the CCO environment - the plugin forwards it only to the CCO backend API.
- Deduplication prevents duplicate or replay of receipts into the fiscal backend.

Compatibility 11

Item	Detail
CCO Front-end	2.0 FP15 and higher
CCO Backend	2.0 FP15 and higher
Plugin architecture	Standard CCO plugin mechanism (cashdesk POS plugin)
Java	11 (JDK 11 runtime)
Receipt source	Folder (JSON) / Excel / REST API
POS environment	On-premise POS and CCO cloud-hosted POS (e.g. CloudAix virtual desktops)

Contact

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